EPARTMENT OF BACTERIOLOGY BERKELEY 4, CALIFORNIA

I would recommend

Nov. 30, 1950

Dear Joshua -Re lested liquid medium: I regret That we have no parmal experience since the sort of problem you're interested in has never arisen. However, Seymonn Huther (who has chided me for the inadequacy of our synthetic media) recommends (Proc. Am. Phil. Soc. 94, 152, 1950):

Ethylenediamine tetraacetie acid 0.05 g.

K2HP04 0.02 g. 14g So4.7H20 0.08°g.

NH4Cl (NH4NO3 preferable, 1 Think) 0,02 g.

my printing is used a Ca 2.0 mg. 5.0 Lg. Fc 1.0 Lg. Mo 0.6 mg.

cu B 2.0 mg.

Mn 1.4 mg Co 0.4 mg

10 pt 6.6-6.9 = KOH: dist. H20 to 100 ms. He says this gives abadant growth, with a sailable c- somce, of many strains that gross badly in the

For of ende Letra be use.

No chance of a paper on UV /adaptation at
the moment, as I am up to years in try plop phone
metablishme with Harpaichi, sho leaves for Kronberg's
hat in famery. Also, I would to see what Grisse has
in presses on MV /adaptation in yearst; he many have
anticipated harm of our points. Shirty Gratin has
anticipated harm of our points. Shirty Gratin in
been with it to study the seepment of adaptation in
metablic politics, with dull a seepment or adaptation in
welstile politics on adapted to at much the same rate
where dealers are adapted to at much the same rate
where dealers are adapted to at much the same rate
as the forming substitute are maded to that industrian aments of subtraction are meded to start industrien.

The hyplophon story is fascinating to poendermouls there are 2 radically distinct pathons, diverging at kynnice "Quindine" pathway. "Aromatic"
puthway A COCH CHMH COOTH COOTT CO + (CH,O) elouine V WH3+(CH20)+2 CO2 DUH" primary armatic substrales DOH OH HOOCEH, COCH, CH, COOH > CO. + (CH, O) HOOCCHCHCHCHCOOH probable for Japanese work, but not jet proven June the in the armatic posthoney have a block below anthrandie, which accumulates in yields of ±80 %. Despite anthrandre which accumulates in greater of 500 10. Jespent this very occur block they are fully adapted to catachol this very occur block being infficient to give complete activations of the later adaptive crysters. In 25 tested strotter pattern 1's either for; no "mixed" eases. But we have the pattern 1's either for; no "mixed" eases. But we have the pattern of strain which accumulates in quantitative one exhaustrative of the arrival of hyperment yield from tryptophan a mixture (ratio rainable) of hyperment yield from tryptophan a mixture (ratio rainable) of hyperment absolute double and authorities acuse, there being an apparent absolute double and authorities acused. block. There is also me other aberrand strain with an amely elessate block that accumulates an indole derivative, probably should be indole, and is thus fairly close to a reversal of the biografiative patherer. So much for Kasa' idea that degradative potherays should be the severe of northetic mas, be have mary margness cell-free: kyndeniusse (a provideral-Pungue That I cleaves to alonine + anthrombie), the sight willight tryp > Kymunomine, or the out concept - villegip myster. He Hwain's technique of elumina granding has prived a godsend in making prepheating of the usynes, since some,

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whose hyphophon exidese, are completely wrested hy stoppy deging of al. Alumina griding is quick comparing to see description in f. for. Hinsbird. 1948.

Did I write to you about the prosibility of a visit to Madrin in feb? His like to one after the program committee meeting the SAD in hora City. It would help if you could dip up a med humanium for a reminer this would he brital males him broken them I expect to but this would be brital males him broken them I expect to be med him then.